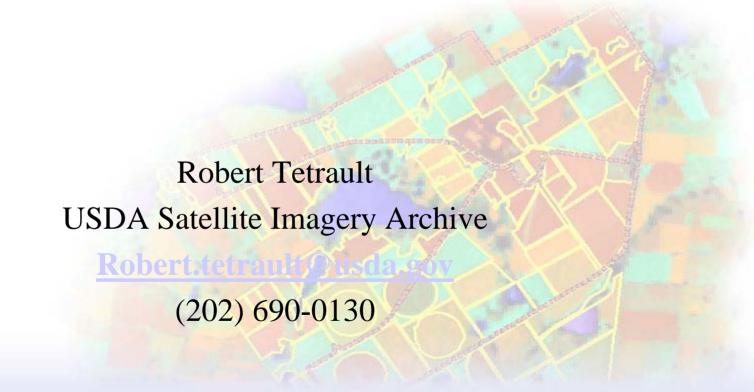


# Access and Availability of Resourcesat-1 AWiFS Data for Agriculture





## **Topics**

- How to get ResourceSat-1 data (and other data) that is in the USDA-SIA
  - Archive Explorer
- USDA Satellite Imagery Archive and its role.
- How to order data that is not in the USDA-SIA
  - Special Imagery Purchases



# How to get ResourceSat-1 Satellite Data (and other data) that is in the USDA-SIA

- ResourceSat-1 data that is in the USDA-SIA is
  *free* to participating USDA agencies.
  - Logon to Archive Explorer,
  - Search the collection,
  - Add to shopping cart, and
  - Place an order.
- CDROM arrives via FedEx.
- ResourceSat-1 data is purchased with a Tier 2 license which allows redistribution to Federal/Civil agencies.



## **USDA-SIA Standing Orders**

- USDA-SIA tasks ASRC-MS with a standing order for field-level resolution satellite imagery.
  - CCC section 4 funds are used.
- Imagery is purchased based on contract specifications
  - Delivered on time (5 days after acquisition date for North America; 10 days for other areas.)
  - Less than 50 percent cloudy.
- Imagery arrives; is processed; and available for FAS-PECAD directly and participating agencies through Archive Explorer.



## USDA Satellite Imagery Archive Overview of Functions, Budget and Mission

- The USDA Satellite Imagery Archive (USDA-SIA) was formed March 16, 2000 by a MOU signed by the Under Secretaries of:
  - Farm, Foreign Agricultural Service
  - Marketing and Regulatory Programs
  - Natural Resources and Environment
  - Research, Education and Economics
  - Chief Economist
  - Chief Information Officer



#### Goals of the USDA-SIA

- Cost-sharing program to maximize the cost effectiveness of Department expenditures on satellite imagery.
- Reduce the per-image price paid by spreading acquisition costs over all USDA agencies and facilitate cost sharing.
- Take advantage of contracts already in place.
- Benefit from leveraging the power of a single USDA purchasing body.



## Why is it at FAS?

- FAS already purchases global imagery datasets.
  - AVHRR, SPOT-Vegetation, Landsat, IRS-AWiFS
- FAS has contracts in place to purchase satellite imagery and receives unprecedented discounts on satellite imagery through the contract.
- FAS has the global satellite imagery archive.
- FAS has incorporated these duties into its Code of Federal Regulation.



### Code of Federal Regulation Title 7, Section 2-43

- (45) Support remote sensing activities of the Department and research with satellite imagery including:
  - (i) Providing liaison with U.S. space programs;
  - (ii) Providing administrative management of the USDA Remote Sensing Archive and the transfer of satellite imagery to all USDA agencies;
  - (iii) Coordinating all agency satellite imagery data needs; and
  - (iv) Arranging for acquisition, and preparation of imagery for use to the extent of existing capabilities.



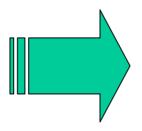
#### **USDA-SIA Services**

- 1. Distribute satellite imagery from the USDA-SIA to participating USDA agencies. Manage the contract.
  - Search and discovery through web-based Archive Explorer.
- 2. Purchase satellite imagery for the USDA-SIA.
  - Requirements defined by FAS for foreign purchases.
  - Requirements defined by FSA and other domestic agencies for US coverage.
- 3. Purchase other satellite imagery upon request
  - Special imagery purchases are defined by requirement of the agency requesting service and by transfer of funds.

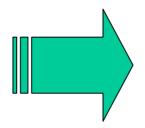


## Services Matched to Funding

- Distribution of imagery and management of USDA-SIA.
- 2. Satellite imagery purchase.
- 3. Special satellite imagery purchases.

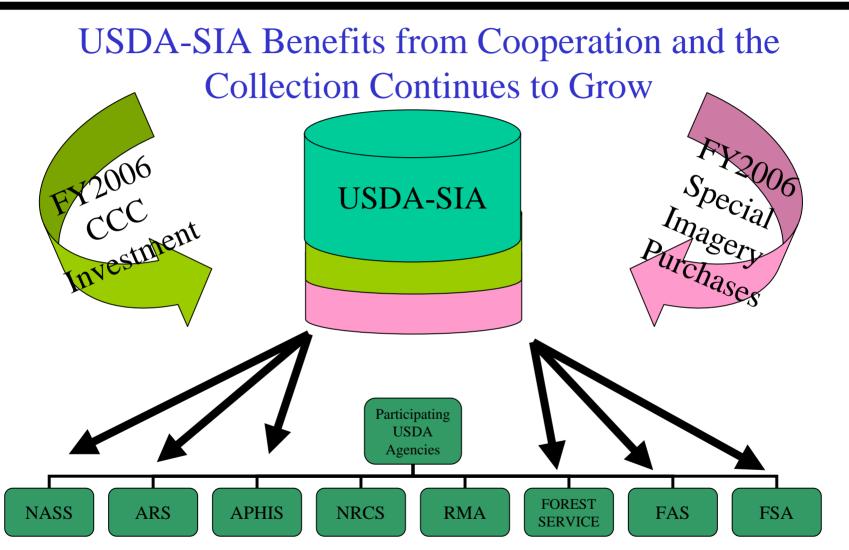




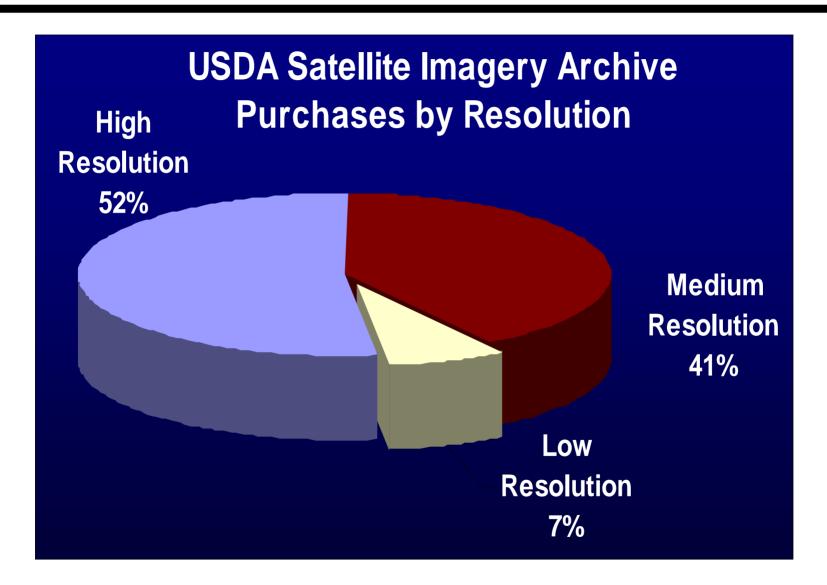


- 1. Participating agencies pay an annual subscription fee.
- 2. CCC annual investment.
- 3. Transfer of funds via AD-672.











# Satellite Imagery Vendors under contract with ASRC MS

- 1. MDA Geospatial Services-Radarsat International
- 2. Earthsat (MDA Federal)
- 3. Eurimage
- 4. Space Imaging (GeoEye)
- 5. OrbImage (GeoEye)
- 6. Digital Globe
- **7. SPOT**

- 750 products and services
- Multipsectral imagery (2.8 to 60 meters)
- Pan imagery(0.6 to 10 meters)
- Radar
- Services





### How to get Satellite Data not in the USDA-SIA

#### Ordering satellite data through USDA-SIA:

- 1. Contact Bob Tetrault (COTR) to place an order
  - robert.tetrault@usda.gov
  - Call Bob Tetrault at 202-690-0130
- 2. Send detailed requirements (Agency to USDA-SIA)
- 3. Review bids (Agency and USDA-SIA)
- 4. Transfer funds via AD-672 (Agency to USDA-SIA)
- 5. Receive imagery

